

## Supplemental Digital Content 1. Mean quality scores of macula and optic nerve head scans over time

	Time				Overall	P-Value
	8 AM	12 PM	4 PM	8 PM		
Macula Image Quality	8.1 (7.6, 8.5)	7.7 (7.2, 8.1)	8.0 (7.5, 8.4)	7.9 (7.4, 8.3)	7.9 (7.5, 8.2)	0.218
ONH Image Quality	7.9 (7.6, 8.3)	7.8 (7.5, 8.1)	7.9 (7.6, 8.2)	7.8 (7.5, 8.2)	7.9 (7.6, 8.2)	0.660

Abbreviation: ONH= optic nerve head

Supplemental Digital Content 2. Correlation of vessel density measurements with age and mean ocular perfusion pressure over time

Vessel Density Measurements		Estimate (95% CI)	P-value
macular wiVD	Age	0.06 (-0.01, 0.14)	0.117
	MOPP	-0.01 (-0.09, 0.08)	0.909
pfVD	Age	0.07 (-0.02, 0.15)	0.116
	MOPP	0.01 (-0.09, 0.11)	0.852
ONH-wiVD	Age	0.01 (-0.05, 0.07)	0.690
	MOPP	-0.07 (-0.15, 0.00)	0.061
ONH-wiCD	Age	0.02 (-0.04, 0.09)	0.501
	MOPP	-0.06 (-0.13, 0.02)	0.156
cpVD	Age	0.04 (-0.03, 0.11)	0.244
	MOPP	-0.10 (-0.18, -0.02)	<b>0.021</b>
cpCD	Age	0.05 (-0.03, 0.12)	0.207
	MOPP	-0.09 (-0.18, 0.00)	0.058

P-value <0.05 is shown in bold

Abbreviations:

MOPP= mean ocular perfusion pressure; wiVD= whole image vessel density; pfVD= parafoveal vessel density; ONH-wiVD= optic nerve head whole image vessel density; ONH-wiCD= optic nerve head whole image capillary density; cpVD= circumpapillary vessel density; cpCD= circumpapillary capillary density